

Claims

1. A low-force release mechanism comprising:
a main structure, a trap, an internal spring activation element used to eliminate ordinal
5 setup requirement, at least one trigger, and attachments by which a container is
attached to said main structure and trap,
wherein the internal geometry of the trap is used to lock and hold the position of said
trap, and the internal release activation element interacts with the geometry of the trap
to permit the application of the low force on the trigger to cause the internal spring
10 activation element to move the position of the container.
2. The low force release mechanism of claim 1, further comprising at least one ball
bearing to lock and hold the position of the trap.
3. The low force release mechanism of claim 1, further comprising at least one roller
slug to lock and hold the position of the trap.
- 15 4. The low force release mechanism of claim 1, further comprising low frictional ball
bearings to lock and hold the position of the trap.
5. The low force release mechanism of claim 1, further comprising a hangar.
6. The low force release mechanism of claim 1, further comprising a hangar that causes
the locking of the internal release activation element.
- 20 7. The low force release mechanism of claim 1, such that the internal activation element
employs a spring device.
8. The low force release mechanism of claim 1, such that the container is chosen from
the group consisting of bags, boxes, collapsible boxes, and nets.
9. A low-force release mechanism comprising:
25 a main structure, a trap, an internal spring activation element used to eliminate ordinal
setup requirement, at least one trigger, and attachments by which a container is
attached to said main structure and trap,
wherein the internal geometry of the trap is used to lock and hold the position of said
trap, and the internal release activation element interacts with the geometry of the trap
30 to permit a user to pull on a string attached to a trigger to cause the internal spring
activation element to move the position of the container, such that the container
collapses releasing its contents.